

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

RANBAXY LABORATORIES LIMITED
 Attn. Deshmukh, Jayadeep R.
 600 College Road East, Suite 2100
 Princeton, New Jersey 08540
 UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF
 THE INTERNATIONAL SEARCH REPORT
 OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
 (day/month/year)

29/01/2004

Applicant's or agent's file reference

RLL-289WO

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/IB 02/05590

International filing date
 (day/month/year)

23/12/2002

Applicant

RANBAXY LABORATORIES LIMITED

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
 NL-2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Marthe Oldendorf



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RLL-289WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IB 02/05590	International filing date (day/month/year) 23/12/2002	(Earliest) Priority Date (day/month/year)
Applicant RANBAXY LABORATORIES LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 12 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 02/05590

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D207/14 C07D401/12 C07D207/12 A61K31/40 A61K31/4025
A61P11/00 A61P13/00 A61P3/04 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 091 570 A (BIEL JOHN H) 28 May 1963 (1963-05-28) example 2 column 2, line 26 - line 38 column 3, line 12 - line 32 ---	1-17
X	US 2 956 062 A (LUNSFORD CARL D) 11 October 1960 (1960-10-11) table I column 2, line 3 - line 8 --- -/--	1-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 January 2004

Date of mailing of the international search report

29.01.2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Seitner, I

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/05590

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BERNARD V. FRANKO ET AL: "Derivatives of 3-Pyrrolidinols-III. The Chemistry, Pharmacology, and Toxicology of some N-Substituted-3-Pyrrolidyl alpha-Substituted Phenylacetates" JOURNAL OF MEDICINAL AND PHARMACEUTICAL CHEMISTRY, vol. 2, 1960, pages 523-529, XP008021298 examples 504,379,371,372,480,479,484,487,485; table I page 534 -page 538 ---	1-17
X	BIEL J H ET AL: "CENTRAL STIMULANTS. II. CHOLINERGIC BLOCKING AGENTS" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 26, 1961, pages 4096-4103, XP002067288 ISSN: 0022-3263 abstract examples 1,3; table II examples 11,13; table III ---	1-17
X	EP 0 012 071 A (SYNTEX INC) 11 June 1980 (1980-06-11) example 3 page 10, line 32-35 ---	1,2
Y	EGLEN R M ET AL: "MUSCARINIC RECEPTOR LIGANDS AND THEIR THERAPEUTIC POTENTIAL" CURRENT OPINION IN CHEMICAL BIOLOGY, CURRENT BIOLOGY LTD, LONDON, GB, vol. 3, no. 4, August 1999 (1999-08), pages 426-432, XP000972296 ISSN: 1367-5931 cited in the application abstract figures 3,4 ---	1-17
Y	EP 0 388 054 A (PFIZER LTD ;PFIZER (US)) 19 September 1990 (1990-09-19) cited in the application examples 4-8 claims 11,12 ---	1-17
Y	WO 98 21183 A (NOE CHRISTIAN R ;WAELEBROECK MAGALI (BE); LAMBRECHT GUENTER (DE); C) 22 May 1998 (1998-05-22) examples 1,2 claims 1,17,18 --- -/--	1-17

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 02/05590

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 823 423 A (BANYU PHARMA CO LTD) 11 February 1998 (1998-02-11) cited in the application examples 2,12,17,28,29,7120; table 1 claims 10,11 ---	1-17
Y	WO 02 04402 A (BANYU PHARMA CO LTD ;MATSUDA KENJI (JP); KURIHARA HIDEKI (JP); OGI) 17 January 2002 (2002-01-17) -& EP 1 302 458 A (BANYU PHARMA CO LTD) 16 April 2003 (2003-04-16) examples 16-24,27-30,40 claims 40,41 ---	1-17
Y	YUFU SAGARA ET AL: "Cyclohexylmethylpiperidinyltriphenylpropi onamide: a selective muscarinic M3 antagonist discriminating against the other receptor subtypes" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 45, no. 4, 2002, pages 984-987, XP002238502 ISSN: 0022-2623 cited in the application abstract figure 1 ---	1-17
Y	US 6 174 900 B1 (TAKAHASHI YOSHINORI ET AL) 16 January 2001 (2001-01-16) cited in the application tables 1,2 examples 1,4 claim 6 ---	1-17
Y	EP 0 863 141 A (BANYU PHARMA CO LTD) 9 September 1998 (1998-09-09) cited in the application claims 5,6; example 1 ---	1-17
Y	EP 0 930 298 A (BANYU PHARMA CO LTD) 21 July 1999 (1999-07-21) examples 16-18,29 claims 14-16 ---	1-17
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/05590

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TANIGUCHI K ET AL: "AGENTS FOR THE TREATMENT OF OVERACTIVE DETRUSOR. VI. SYNTHESIS AND PHARMACOLOGICAL PROPERTIES OF ACETAMIDE DERIVATIVES BEARING CYCLIC AMINES IN N-SUBSTITUENTS" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 42, no. 1, 1994, pages 74-84, XP002067286 ISSN: 0009-2363 examples 4C-4G column 1	1-17
X	--- O'NEILL, JOHN J. ET AL: "Biochemical effects of psychotomimetic anticholinergic drugs" ADVANCES IN BIOCHEMICAL PSYCHOPHARMACOLOGY (1972), 6, 203-18 , XP008026629 page 203 -page 204 -----	1-17

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 02/05590

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 4-7 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 1 and 4 (part.)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-17 (all partially)

Compounds according to formula (I) of claim 1 in which X represents oxo as well as their pharmaceutical use and compositions and the process for making them.

2. Claims: 1-17 (all partially)

Compounds according to formula (I) of claim 1 in which X represents amino as well as their pharmaceutical use and compositions and the process for making them.

3. Claims: 1, 3-17 (all partially)

Compounds according to formula (I) of claim 1 in which X represents lower alkyl(C1-C4)amino as well as their pharmaceutical use and compositions and the process for making them.

4. Claims: 1, 3-17 (all partially)

Compounds according to formula (I) of claim 1 in which X represents lower alkoxy (C1-C4) as well as their pharmaceutical use and compositions and the process for making them.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1 and 4 (part.)

The scope of claims 1 and 4, in as far as the expressions "prodrugs and metabolites" are concerned, is so unclear (Article 6 PCT), that a meaningful International Search is impossible with regard to these expressions.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/05590

Patent document cited in search report	Classification date	Patent family member(s)	Publication date
US 3091570	A	28-05-1963	NONE
US 2956062	A	11-10-1960	NONE
EP 0012071	A	11-06-1980	US 4208423 A 17-06-1980 AU 5310279 A 12-06-1980 EP 0012071 A1 11-06-1980 ES 486156 A1 16-09-1980 JP 55105684 A 13-08-1980 ZA 7906220 A 24-06-1981
EP 0388054	A	19-09-1990	AT 96783 T 15-11-1993 AU 614224 B2 22-08-1991 AU 5140290 A 20-09-1990 BA 98300 A 14-09-2001 CA 2012295 A1 17-09-1990 CN 1045580 A ,B 26-09-1990 CZ 9001295 A3 17-05-1995 CY 1812 A 20-10-1995 DD 292911 A5 14-08-1991 DE 69004302 D1 09-12-1993 DE 69004302 T2 24-02-1994 DK 388054 T3 06-12-1993 EG 18951 A 30-03-1994 EP 0388054 A1 19-09-1990 ES 2060020 T3 16-11-1994 FI 95573 B 15-11-1995 HK 130294 A 02-12-1994 HU 58313 A2 28-02-1992 HU 9500505 A3 30-10-1995 IE 62515 B1 08-02-1995 IL 93694 A 26-08-1994 JP 2032393 C 19-03-1996 JP 2282360 A 19-11-1990 JP 7064809 B 12-07-1995 JP 7149640 A 13-06-1995 KR 9615142 B1 01-11-1996 MX 19890 A 01-08-1993 NO 901241 A ,B, 18-09-1990 NZ 232958 A 26-05-1992 PL 164136 B1 30-06-1994 PT 93443 A ,B 07-11-1990 SG 143394 G 13-01-1995 SK 129590 A3 07-05-1997 SU 1833374 A3 07-08-1993 RU 2015965 C1 15-07-1994 US 5096890 A 17-03-1992 US 5233053 A 03-08-1993 ZA 9001982 A 30-10-1991
WO 9821183	A	22-05-1998	WO 9821183 A1 22-05-1998 AT 238280 T 15-05-2003 AU 745331 B2 21-03-2002 AU 4856097 A 03-06-1998 CA 2271276 A1 22-05-1998 CN 1237159 A 01-12-1999 DE 59709927 D1 28-05-2003 DK 937041 T3 11-08-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/05590

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9821183	A	EP 1371645 A1	17-12-2003
		EP 1369414 A1	10-12-2003
		EP 0937041 A1	25-08-1999
		ES 2195121 T3	01-12-2003
		HU 9903791 A2	28-03-2000
		JP 2001504459 T	03-04-2001
		NO 991056 A	11-05-1999
		NZ 336202 A	27-10-2000
		PL 332595 A1	27-09-1999
		PT 937041 T	30-09-2003
		SI 937041 T1	31-10-2003
		US 6307060 B1	23-10-2001
		US 2003220400 A1	27-11-2003
		US 2002173536 A1	21-11-2002
EP 0823423	A 11-02-1998	AU 700837 B2	14-01-1999
		AU 5513996 A	18-11-1996
		EP 0823423 A1	11-02-1998
		JP 2993124 B2	20-12-1999
		US 5750540 A	12-05-1998
		CA 2218479 A1	31-10-1996
		WO 9633973 A1	31-10-1996
WO 0204402	A 17-01-2002	AU 7102701 A	21-01-2002
		CA 2415468 A1	10-01-2003
		EP 1302458 A1	16-04-2003
		WO 0204402 A1	17-01-2002
US 6174900	B1 16-01-2001	CA 2179574 A1	27-12-1996
		CN 1141916 A , B	05-02-1997
		DE 69620306 D1	08-05-2002
		DE 69620306 T2	14-11-2002
		EP 0751127 A1	02-01-1997
		JP 9071563 A	18-03-1997
		KR 254105 B1	01-05-2000
		TW 393466 B	11-06-2000
		US 5968956 A	19-10-1999
EP 0863141	A 09-09-1998	AT 205490 T	15-09-2001
		AU 7145996 A	30-04-1997
		DE 69615214 D1	18-10-2001
		DE 69615214 T2	27-06-2002
		EP 0863141 A1	09-09-1998
		US 6130232 A	10-10-2000
		CA 2234619 A1	17-04-1997
		WO 9713766 A1	17-04-1997
EP 0930298	A 21-07-1999	AT 229941 T	15-01-2003
		AU 716050 B2	17-02-2000
		AU 3635197 A	25-02-1998
		BG 103114 A	30-11-1999
		BR 9711108 A	17-08-1999
		CA 2261680 A1	12-02-1998
		DE 69718026 D1	30-01-2003
		DE 69718026 T2	10-07-2003
		EE 9900038 A	16-08-1999
		EP 0930298 A1	21-07-1999
		JP 3063164 B2	12-07-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/05590

Patent document cited in search report	Application date	Patent family member(s)	Publication date
EP 0930298	A	NO 990472 A	01-02-1999
		NZ 333842 A	25-05-2001
		SK 12299 A3	16-05-2000
		CN 1226888 A	25-08-1999
		CZ 9900331 A3	14-07-1999
		ES 2188961 T3	01-07-2003
		HR 970426 A1	31-08-1998
		HU 9902381 A2	29-11-1999
		ID 17259 A	11-12-1997
		WO 9805641 A1	12-02-1998
		JP 3282617 B2	20-05-2002
		JP 2000178231 A	27-06-2000
		JP 3282618 B2	20-05-2002
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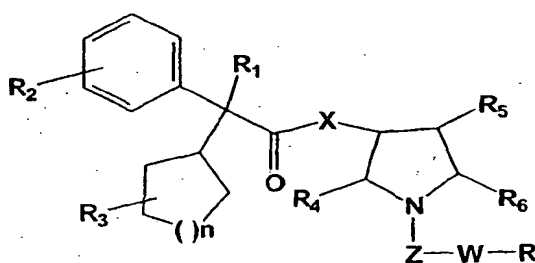
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PCT/IB 02/05590

Box III TEXT OF THE ABSTRACT (continuation of item 5 of the first sheet)

This invention generally relates to the derivatives of 1-substituted-3-pyrrolidines

having the structure of Formula I:



Formula I

The compounds of this invention can function as muscarinic receptor antagonists, and can be used for the treatment of various diseases of the respiratory, urinary and gastrointestinal systems mediated through muscarinic receptors.

The invention also relates to a process for the preparation of the compounds of the present invention pharmaceutical compositions containing the compounds of the present invention and the methods for treating the diseases mediated through muscarinic receptors.

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